



8th Cell Migration Retreat; Seminarhotel Hirschen, Eggiwil Tuesday, September 22 to Wednesday, September 23, 2020

Tuesday, September 22, 2020

Travel

07.02 h Departure of train from Bellinzona (train to Signau and bus arrival Eggiwil at 10.32)
07.09 h Departure of train from Konstanz (train to Signau and bus arrival Eggiwil at 10.32)
07.42 h Departure of train from Geneva (train to Signau and bus arrival Eggiwil at 10.32)
09.04 h Departure of train from Fribourg (train to Signau and bus arrival Eggiwil at 10.32)
09.42 h Departure of train from Bern (train to Signau and bus arrival Eggiwil at 10.32)

Short walk from the bus station Eggiwil to the Hotel

ca. 10:45 Arrival Seminarhotel Hirschen, Eggiwil: Coffee + Gipfeli

11:00-11:50 Session 1: Chair: Ruth Lyck

11.00-11.50 Keynote:
Prof. Dr. Olivier Pertz, Executive Director, Institute of Cell Biology (IZB), University of Bern
Imaging dynamic MAPK fate decision signaling one cell at a time

12:00-13:30 Lunch Break

13:30-15:00 Session 2: Chair - Curzio Rüegg

13:30-13:50 **Federico Saltarin, TKI Bern**
Investigation of the mechanisms of melanoma cell extravasation across the blood-brain barrier

13.50-14:10 **Betül Taskoparan, University of Geneva**
Cancer-cell-derived HMGB1 dampens antitumor immunity

14.10-14:30 **Ivana Domljanovic, University of Fribourg**
DNA origami biosensor for the detection of cancer biomarkers

14.30-14.50 **Chen Wang, University of Geneva**
Time-of-day effects in the immune response on tumor engraftment and growth

Hotel check-in

15:00-17:30 Coffee Break & time to relax or playing Minigolf – hotel has own minigolf
Attention: Minigolf is played outside! Therefore, bring comfortable clothing, and according to the weather conditions maybe also a rain jacket!

17:30-18:30 Business Meeting – Novel Framework of the PhD Program Cell Migration
Introduction: Britta Engelhardt
Discussion - all

19:00-20:30 Dinner

20:30-22:00 Science Flashes – Chair: Britta Engelhardt

PhD students present their research in 3 minutes science flashes followed by 2 minutes of questions

Serena Melgrati, IRB Bellinzona

Marginal Zone Formation Requires ACKR3 Expression on B Cells

Vasudhara Rao, IZB Bern

Mechanisms of cytoskeletal feedback to Rho GTPase signaling

Sasha Soldati, TKI Bern

Investigating dose dependent effects of natalizumab on the migration of different CD4 T cell subsets across the human blood-brain barrier *in vitro*

Hélène Poinot, University of Geneva

Targeting the glucocorticoid metabolism to increase response to immunotherapy in renal cancer

Leonhard Schink, BITg Kreuzlingen

The pursuit of CCR7: endocytosis and beyond

Kristina Berve, TKI Bern

Role of the angiogenic factor Ang-2 in myeloid cell recruitment into the inflamed CNS

Burak Kizil, University of Geneva

Role of the sympathetic nervous system on tumor engraftment and dissemination

Adrian Madarasz, TKI Bern

Circulation and clearance of cerebrospinal and brain interstitial fluid in murine models of hemorrhagic stroke

Alicia Kemble, Roche, Basel

The Role of MAGL at the blood-brain barrier

Wednesday, September 23, 2020

07:30-08:30 Breakfast

08:30-10:00 Session 3: Chair - Marcus Thelen

08:30-08:50 Nora Ruef, University of Fribourg

Memory CD8⁺ T cells show dynamic adaptation for target tissue surveillance

08:50-09:10 Sidar Aydin, TKI Bern

Antigen cross-presentation by the blood-brain barrier (BBB) endothelium inhibits CD8⁺ T-cell migration leading to BBB breakdown

09:10 – 09:30 Julia Wagner, University of Geneva

Combination of a TLR agonist and a STING ligand induces T cell death

09:30- 09:50 **Lukas Altenburger, University of Fribourg**
Forced disruption of T cell - DC interactions by the lymphoid microenvironment accelerates effector cell generation

10:00-10:30 **Coffee break**

10:30-12:00 **Session 4: Chair Olivier Perz**

10.30- 10:50 **Marc Artinger, BITg Kreuzlingen**
The CCR7 Glycocalyx Shape in Controlling Receptor Function and Ligand Recognition

10:50 - 11:10 **Paola Antonello, IRB Bellinzona**
Migration of Lymphoma Cells: Role of ACKR3

11:10-11:30 **Stefano Bagatella, Vetsuisse, Uni Bern**
The two sides of neutrophils: killers and spreaders of *Listeria monocytogenes*

11:30-11:50 **Daniela Ivan, TKI Bern**
Monocyte recruitment to the inflamed CNS - migration pathways and distinct functional polarization

12.00-13.30 **Lunch Break**

13:30-14:30 **Session 5: Chair Daniel Legler and Carole Bourquin**

13:30-14.15 **Quiz**

14.15-14.20 **Prize Awards:** Quiz and for best Science Flash

14:30 **End of Retreat**

Travel

14:51 Departure of bus from Eggwil to Signau – **reserved seats**

15.14 Departure of train from Signau to Bern (with arrival at **15.48 – reserved seats**)

16.02 Departure of train **from Bern to Bellinzona** (with arrival at 18.57)

16.02 Departure of train **from Bern to Konstanz** (with arrival at 18.34)

16.04 Departure of train **from Bern to Geneva** (with arrival at 18.00)

16.08 Departure of train **from Bern to Fribourg** (with arrival at 16.25)